

CLAIMS

- [c1] 1. A code division multiple access (CDMA) mobile station (MS), comprising:
a radio circuit configured to communicate with a CDMA radio access network (RAN) using CDMA protocol; and
a subscriber circuit configured to communicate with a GSM subscriber identity module (SIM) to permit the MS to authenticate itself with a GSM core infrastructure, whereby use of the CDMA RAN with the GSM core infrastructure is facilitated.
- [c2] 2. The MS of Claim 1, further comprising the SIM.
- [c3] 3. The MS of Claim 2, wherein the MS reads at least one identifier from the SIM upon engagement of the SIM with the MS.
- [c4] 4. The MS of Claim 3, wherein the identifier is an International Mobile Subscriber Identity (IMSI).
- [c5] 5. The MS of Claim 4, wherein the IMSI is transmitted by the MS in at least one message.
- [c6] 6. The MS of Claim 5, wherein the message is a registration message.
- [c7] 7. The MS of Claim 5, wherein the message is an origination message.
- [c8] 8. The MS of Claim 5, wherein the message is a page response message.
- [c9] 9. The MS of Claim 1, wherein the MS selectively displays at least one service provider name.
- [c10] 10. The MS of Claim 1, wherein the MS selectively displays at least one mobile directory number.

- [c11] 11. The MS of Claim 2, wherein the MS permits a user to use the MS only if the user inputs a predetermined verification value to the MS.
- [c12] 12. The MS of Claim 2, wherein the MS terminates a call upon removal of the SIM from the MS.
- [c13] 13. The MS of Claim 12, wherein the MS deletes subscriber information upon removal of the SIM from the MS.
- [c14] 14. The MS of Claim 2, wherein the MS periodically checks for the presence of the SIM in the MS and terminates a call when the MS determines that the SIM is no longer engaged with the MS.
- [c15] 15. The MS of Claim 1, wherein the MS uses cdma2000 principles.
- [c16] 16. A method for facilitating the use of a CDMA RAN with a GSM core infrastructure, comprising:
engaging a SIM with a CDMA MS;
transmitting at least one IMSI stored on the SIM to an MSC using a CDMA RAN;
using the IMSI, authenticating the SIM with a GSM core infrastructure; and
based on the authenticating act, registering the MS with SIM with the MSC.
- [c17] 17. The method of Claim 16, further comprising transmitting the IMSI in at least one message.
- [c18] 18. The method of Claim 17, wherein the message is a registration message.
- [c19] 19. The method of Claim 17, wherein the message is an origination message.
- [c20] 20. The method of Claim 17, wherein the message is a page response message.
- [c21] 21. The method of Claim 16, comprising selectively displaying at least one service provider name on the MS.

- [c22] 22. The method of Claim 16, comprising selectively displaying at least one mobile directory number on the MS.
- [c23] 23. The method of Claim 16, comprising permitting a user to use the MS only if the user inputs a predetermined verification value to the MS.
- [c24] 24. The method of Claim 16, comprising terminating a call upon removal of the SIM from the MS.
- [c25] 25. The method of Claim 24, comprising deleting subscriber information upon removal of the SIM from the MS.
- [c26] 26. The method of Claim 16, comprising periodically determining whether the SIM is engaged with the MS and terminating a call when it is determined that the SIM is no longer engaged with the MS.
- [c27] 27. The method of Claim 16, wherein the MS uses cdma2000 principles.
- [c28] 28. A system for facilitating the use of a CDMA RAN with a GSM core infrastructure, comprising:
an MSC communicating with the CDMA RAN using CDMA protocol, the MSC also communicating with the GSM core infrastructure using GSM protocol;
at least one MS communicating with the CDMA RAN and having a registration in the GSM core infrastructure; and
at least one SIM detachably engageable with the MS for authenticating the MS with the GSM core infrastructure.
- [c29] 29. The system of Claim 28, wherein the MS reads at least one identifier from the SIM upon engagement of the SIM with the MS.

- [c30] 30. The system of Claim 29, wherein the identifier is an International Mobile Subscriber Identity (IMSI).
- [c31] 31. The system of Claim 30, wherein the IMSI is transmitted by the MS in at least one message.
- [c32] 32. The system of Claim 31, wherein the message is a registration message.
- [c33] 33. The system of Claim 31, wherein the message is an origination message.
- [c34] 34. The system of Claim 31, wherein the message is a page response message.
- [c35] 35. The system of Claim 28, wherein the MS selectively displays at least one service provider name.
- [c36] 36. The system of Claim 28, wherein the MS selectively displays at least one mobile directory number.
- [c37] 37. The system of Claim 28, wherein the MS permits a user to use the MS only if the user inputs a predetermined verification value to the MS.
- [c38] 38. The system of Claim 28, wherein the MS terminates a call upon removal of the SIM from the MS.
- [c39] 39. The system of Claim 38, wherein the MS deletes subscriber information upon removal of the SIM from the MS.
- [c40] 40. The system of Claim 28, wherein the MS periodically checks for the presence of the SIM in the MS and terminates a call when the MS determines that the SIM is no longer engaged with the MS.
- [c41] 41. The system of Claim 28, wherein the MS uses cdma2000 principles.